

## **Primary Services and Capabilities**

Field Testing

launcher

- o Rail impact
- Road/mobility
- Instrumentation of subsystems and equipment on ground or airborne platforms

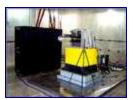
helicopter

Data acquisition and signal analysis

generator

- Laboratory Testing
  - Vibration
  - MDOF motion replication

- Shock
- Acceleration
- o Fuze/S&A functional testing (electrical or mechanical)
- Vibro-Acoustics
- Signal Analysis
- Experimental modal analysis
- Modeling and Simulation
  - Finite element analysis
  - Multi-body dynamics



6 DOF vibration test of Hellfire missile



Multi-body dynamics-analysis of rollover characteristics of a trailer



NMD booster vehicle modal test

## **Supplementary Services**

- Failure analysis
- Mobile instrumentation support vehicle for receiving and processing large volumes of transducer data via telemetry
- Vibration/shock specification development
- Direct technical support to customers

## Specialized Facilities and Equipment

- System-level/subsystem/component-level hazardous and non-hazardous laboratory testing
- Four large test bays for conducting dynamic tests on hazardous and nonhazardous test items through control from a fully-instrumented blockhouse
- RTTC-controlled input road course
- testing
- Fixed telemetry ground station support to dynamic testing
- · Vibro-acoustic test facility to perform simulated inflight testing and more (acoustics, 6-DOF motion replication, or a combination of both)

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